US 113 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

TO POKOMOKE CITY

PROPOSED SIGNALS

1,2,3,6,7,8 — 12" LED

4,5 — 12" LED

PROPOSED VIDEO DETECTION

a,b

PROPOSED SIGNS

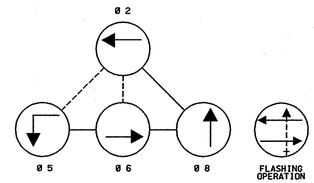
9 — ROUTE MARKER ASSEMBLY 30"x51"

10 — ROUTE MARKER ASSEMBLY 48"x75"

11,13 — 60"x60" LED

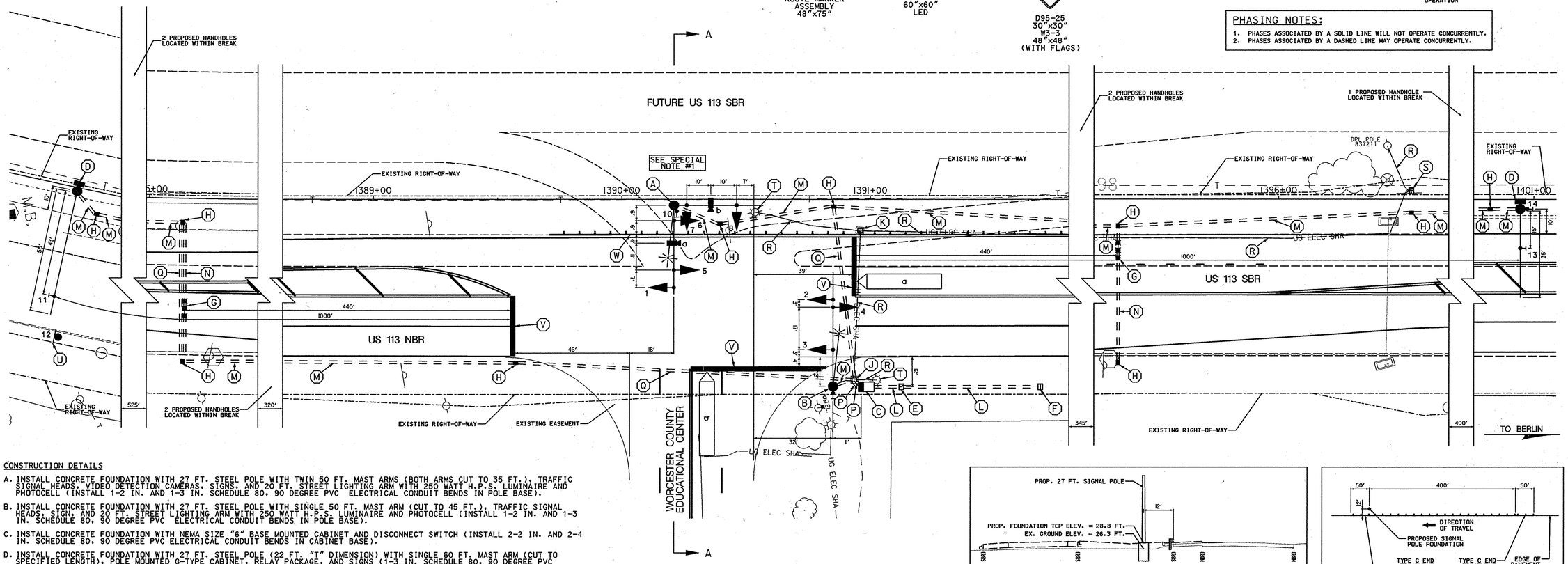
12,14 — D95-25 30"x30" W3-3 48"x48" (WITH FLAGS)

NEMA PHASING



PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH 27 FT. STEEL POLE WITH TWIN 50 FT. MAST ARMS (BOTH ARMS CUT TO 35 FT.), TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS, AND 20 FT. STREET LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE AND PHOTOCELL (INSTALL 1-2 IN. AND 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

B. INSTALL CONCRETE FOUNDATION WITH 27 FT. STEEL POLE WITH SINGLE 50 FT. MAST ARM (CUT TO 45 FT.), TRAFFIC SIGNAL HEADS, SIGN, AND 20 FT. STREET LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE AND PHOTOCELL (INSTALL 1-2 IN. AND 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

C. INSTALL CONCRETE FOUNDATION WITH NEMA SIZE "6" BASE MOUNTED CABINET AND DISCONNECT SWITCH (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE).

D. INSTALL CONCRETE FOUNDATION WITH 27 FT. STEEL POLE (22 FT. "T" DIMENSION) WITH SINGLE 60 FT. MAST ARM (CUT TO SPECIFIED LENGTH), POLE MOUNTED G-TYPE CABINET, RELAY PACKAGE, AND SIGNS (1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

E. INSTALL 200 AMP METERED SERVICE PEDESTAL POLE (1-3 IN. AND 2-2-IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

F. PROPOSED ELECTRICAL TRANSFORMER BASED (BY OTHERS).

G. INSTALL MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN CABLE.

H. INSTALL HANDHOLE.

J. USE EXISTING HANDHOLE.

K. REMOVE EXISTING HANDHOLE.

L. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT FOR POWER FEED - TRENCHED.

M. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.

N. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED.

P. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.

Q. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED.

R. CAP AND ABANDON EXISTING CONDUIT.

S. REMOVE EXISTING SERVICE PEDESTAL.

T. REMOVE EXISTING LIGHT POLE AND ALL ASSOCIATED WIRE AND EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE.

U. INSTALL GROUND MOUNTED SIGN ON 2-4 IN. X 6 IN. WOOD SIGN SUPPORTS.

V. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.

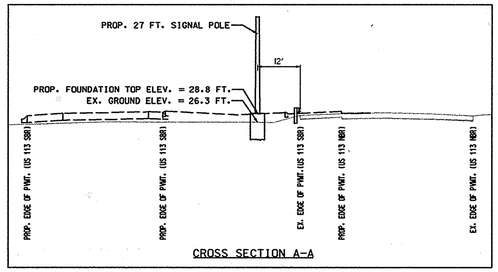
W. INSTALL TRAFFIC BARRIER W-BEAM WITH TYPE C END TREATMENTS (SEE TRAFFIC BARRIER INSTALLATION DETAIL).

GENERAL NOTES

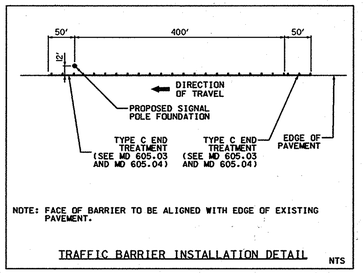
1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
5. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVELWAY FOR INSTALLATION OF NON-INVASIVE MICROLOOP PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND A MAXIMUM OF 3 IN. INTO HANDHOLE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. THE CONTRACTOR SHALL VERIFY ALL OVERHEAD AND UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

SPECIAL NOTES

1. TOP OF POLE FOUNDATION ELEVATION AT STA. 1390+21 MUST BE FINISHED TO AN ELEVATION OF 29.0 TO ACCOMODATE THE US 113 PHASE IV DUALIZATION PROJECT (WO6355170). REFER TO CROSS SECTION A-A THIS SHEET. ALL OTHER SIGNAL EQUIPMENT TOP OF FOUNDATIONS TO BE FINISHED TO EXISTING GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, AND MD 818.02.



CROSS SECTION A-A



NOTE: FACE OF BARRIER TO BE ALIGNED WITH EDGE OF EXISTING PAVEMENT.

TRAFFIC BARRIER INSTALLATION DETAIL NTS

0 10 20 40

SCALE: 1" = 20'

DATUM: NAD 8391 Horizontal
NAVD 88 Vertical

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
STORM DRAIN
G GAS MAIN
W WATER MAIN
SAN SEWER MAIN
E ELECTRIC CABLES
E AERIAL CABLES
T TELEPHONE CABLES
FO FIBER-OPTIC

McCormick Taylor
Engineers & Planners Since 1946
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

BY: $USERNAME$

APPROVALS

TEAM LEADER — 7/23/08

ASST. DIV. CHIEF — 7/17/08

DIVISION CHIEF — for 7/17/08

OFFICE DIRECTOR — 7/23

REVISIONS

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 113 (WORCESTER HIGHWAY) AND WORCESTER COUNTY EDUCATIONAL CENTER

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE AUGUST 1, 2008 CONTRACT NO. AT9095185

DESIGNED BY BSH /JEH — COUNTY WORCESTER

DRAWN BY CLY — LOGMILE 23011317.01

CHECKED BY MAS — T.I.M.S. NO. J098

F.A.P. NO. — T.O.D. NO.

T.S. NO. 4671 — SG-01 OF SG-02 — SHEET NO. 1 OF 2

FLOTTED: $DATETIME$
FILE: I:\5537 - District 4\05 - US 113 Signal\DESIGN\Engineering\PlanSet\pSG-P001_US113.dgn

TOD No. AT909-33
SHA No. WO442A56/C56